QC ABSTRACT

Nameof Work: Providing Rain water Harvesting facilities in ward no.15,Dasarahalli Sub division,BBMP,Bangalore.

Sl. No.	Item	Quantity As Per BOQ	Required No's of testes	Actual No's of testes	Testes	Frequency
1	Materials	–	1	1	Cement Sand, Aggregates	One Test Per Lot
2	M20	11.09 Cum	2	2	Concrete Cube Compressive Strength	-
3	Np3 Pipes(1200mm)	15.00 mtr	1	1	Concrete Cube Compressive Strength	-

Cubes

0-5 Cum 1Set
6-15 Cum 2Set
16-30 Cum 3Set
31-50 Cum 4Set
Add 1set for extra 50Cum

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NABL Accredited As Per ISO/IEC 17025:2017 Laboratory

Job No.: CACE/BBMP/MNC/W.No.15/2022-23

Date: 05.05.2022

TEST REPORT

CLIENT	:	**Assistant Executive Engineer,** Dasarahalli Sub division, BBMP, Bangalore.
AGENCY	:	**Sri. Manjunath N C ,** Contractor, Bangalore.
NAME OF THE WORK	:	Providing Rain water Harvesting facilities in ward no.15, Dasarahalli Sub division, BBMP, Bangalore.
SAMPLE ID	:	Cement (Zuari OPC 53 Grade)
DATE OF MANUFACTURE		April - 2022
DATE OF TESTING		03.05.2022 to 05.05.2022
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 269-2015
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	330 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	29.00 %	-

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Job No.: CACE/BBMP/MNC/W.No.15/2022-23 Date : 05.05.2022

TEST REPORT ON FINE AGGREGATES (SAND)

Client : Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Agency : Sri. Manjunath N C , Contractor, Bangalore.
Name of Work : Providing Rain water Harvesting facilities in ward no.15, Dasarahalli Sub division,BBMP,Bangalore.
Date of Testing : 05.05.2022
IS Code : IS 383:2016
: IS 2386 (Part 1):1963(RA 2011)
Material : Sand Total Wt. of Aggregates in gms **1000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	79	7.90	7.90	92.1	90-100
2.36	122	12.20	20.10	79.9	75-100
1.18	185	18.50	38.60	61.4	55-90
600 Micron	156	15.60	54.20	45.8	35-59
300 Micron	240	24.00	78.20	21.8	8-30
150 Micron	179	17.90	96.10	3.9	0-10

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Date : 05.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Manjunath N C , Contractor, Bangalore.**

Name of Work : Providing Rain water Harvesting facilities in ward no.15, Dasarahalli Sub division,BBMP,Bangalore.

Date of Testing : 05.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 20mm Aggregates

Total Wt. of Aggregates in gms= **5000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
40	0	0	0	100	100
20	189	3.8	3.8	96.2	95-100
10	2436	48.7	52.5	47.5	25-55
4.75	1958	39.2	91.7	8.3	0-10

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Job No.: CACE/BBMP/MNC/W.No.15/2022-23

Date : 05.05.2022

TEST REPORT ON COARSE AGGREGATES

Client : **Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**

Agency : **Sri. Manjunath N C , Contractor, Bangalore.**

Name of Work : Providing Rain water Harvesting facilities in ward no.15, Dasarahalli Sub division,BBMP,Bangalore.

Date of Testing : 05.05.2022

IS Code : IS 383:2016

: IS 2386 (Part 1):1963(RA 2011)

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **15000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	184	1.23	1.23	98.77	95-100
20	8236	54.91	56.13	43.87	30-70
10	3250	21.67	77.80	22.20	10-35
4.75	2810	18.73	96.53	3.47	0-5

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Job No.: CACE/BBMP/MNC/W.No.15/2022-23 Date: 07.05.2022

Test Report Of Concrete Pipes

Customer	Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.
Agency	Sri. Manjunath N C , Contractor, Bangalore.
Name of the work	Providing Rain water Harvesting facilities in ward no.15, Dasarahalli Sub division, BBMP, Bangalore.
Type of Sample	Concrete pipes of Class NP3 (1200mm Dia)
Techinical Reference	As Per IS-458:2003
Date of Testing	07.05.2022

Sl no	Internal Diameter in mm	Barrel wall Thickness in mm	Outer Dia in mm
1	1200mm	120.2mm	1200.3mm
Requirements as per IS 458:2003	1200 ± 3mm	120mm +3mm -1.5mm	------

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Job No.: CACE/BBMP/MNC/W.No.15/2022-23 Date: 17.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Agency : Sri. Manjunath N C , Contractor, Bangalore.

Name of the work : Providing Rain water Harvesting facilities in ward no.15,Dasarahalli Sub division,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	17.05.2022	8.135	335.2	14.90
2	10.05.2022	17.05.2022	8.146	346.5	15.40
3	10.05.2022	17.05.2022	8.152	328.9	14.62

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Job No.: CACE/BBMP/MNC/W.No.15/2022-23 Date: 07.06.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client :Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

Agency : Sri. Manjunath N C , Contractor, Bangalore.

Name of the work : Providing Rain water Harvesting facilities in ward no.15,Dasarahalli Sub division,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	07.06.2022	8.140	505.2	22.45
2	10.05.2022	07.06.2022	8.156	511.3	22.72
3	10.05.2022	07.06.2022	8.138	484.9	21.55

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Job No.: CACE/BBMP/MNC/W.No.15/2022-23 Date: 17.05.2022

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Client	**:Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.**
Agency	**: Sri. Manjunath N C , Contractor, Bangalore.**
Name of the work	: Providing Rain water Harvesting facilities in ward no.15,Dasarahalli Sub division,BBMP,Bangalore.
Sample ID	: Cement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 7th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	17.05.2022	8.136	336.3	14.95
2	10.05.2022	17.05.2022	8.165	354.2	15.74
3	10.05.2022	17.05.2022	8.146	346.8	15.41

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Client :Assistant Executive Engineer, Dasarahalli Sub division, BBMP, Bangalore.

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Name of the work : Providing Rain water Harvesting facilities in ward no.15,Dasarahalli Sub division,BBMP,Bangalore.

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	10.05.2022	07.06.2022	8.184	505.2	22.45
2	10.05.2022	07.06.2022	8.165	512.3	22.77
3	10.05.2022	07.06.2022	8.147	489.6	21.76

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